

AMENDMENTS TO THE CLAIMS

This listing of changes will replace all prior versions, and listings, of claims in PCT/IPEA/409

Amended Sheets:

Listing of Claims:

1. (Previously presented) An ink-jet ink comprising (i) water and (ii) a polymer having a plurality of 1,2- and/or 1,3-diol groups along the polymer backbone and having pendant photo cross-linkable groups attached thereto.
2. (Original) An ink as claimed in claim 1, wherein the polymer is a polyvinyl alcohol.
3. (Currently Amended) An ink as claimed in claim 1 ~~or 2~~, wherein the pendant photo cross-linkable groups are styryl pyridinium and/or acrylate groups.
4. (Currently Amended) An ink as claimed in ~~any preceding~~ claim 1, wherein the pendant cross-linkable group is present from 0.1 to 25% by weight based on the weight of the polymer.
5. (Currently Amended) An ink as claimed in ~~any preceding~~ claim 1, wherein the polymer is polyvinyl alcohol which is derived from polyvinyl acetate in which at least 70% of the acetate groups are hydrolysed.
6. (Currently Amended) An ink as claimed in ~~any preceding~~ claim 1, wherein the polymer as a degree of polymerisation of 350 to 2500.
7. (Currently Amended) An ink as claimed in ~~any preceding~~ claim 1, wherein the polymer is present 0.5 to 60% by weight based on the total weight of the ink.
8. (Currently Amended) An ink as claimed in ~~any preceding~~ claim 1, wherein the water is present from 10 to 90% by weight based on the total weight of the ink.
9. (Currently Amended) An ink as claimed in ~~any preceding~~ claim 1, further comprising UV reactive monomers and/or oligomers.
10. (Currently Amended) An ink as claimed in ~~any preceding~~ claim 1, wherein the UV reactive monomers and/or oligomers are (meth)acrylates, epoxides or oxetanes.

11. (Currently Amended) An ink as claimed in ~~any preceding~~ claim 1, further comprising a photoinitiator.
12. (Currently Amended) An ink as claimed in ~~any preceding~~ claim 1, further comprising a colorant.
13. (Currently Amended) An ink as claimed in ~~any preceding~~ claim 1, having a viscosity of less than 50 mPas at 25° C.
14. (Previously presented) A polyvinyl alcohol having pendant photo cross-linkable groups attached thereto, wherein the groups are styryl pyridinium and acrylate groups with the proviso that the groups are not derived from 4-(2-acryloyloxyethoxy)benzaldehyde and 4-(4-formylphenylethenyl)-1-methylpyridinium methosulfate or 4-(2-acryloyloxyethoxy)benzaldehyde and 1-(3-ethoxycarbonylpropyl)-4-[2-(4'-formylphenyl)ethenyl]pyridinium bromide.
15. (Currently Amended) A polyvinyl alcohol as claimed in claim 14, wherein the groups are derivable from an acryloyloxyalkyl formylbenzoate and a formylphenylethenyl[[[[]]]] pyridinium.
16. (Previously presented) A polyvinyl alcohol as claimed in claim 15, wherein the groups are derivable from 2-acryloyloxyethyl 4-formylbenzoate and 4-(4-formylphenylethenyl)-1-methylpyridinium.
17. (New) A method for printing on a substrate wherein an ink is applied to the substrate, the improvement which comprises the ink being the ink-jet ink of claim 1.
18. (New) The method of claim 17 wherein the ink is applied by screen-printing, flexography or ink-jet printing.
19. (New) A printed substrate produced by the method of claim 17.